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In re Application of: Miele

Art Unit: 1711

Serial No. 10/647917

Case Docket No. 7170

Filed: August 26, 2003

Examiner:

For: Low Emission Fibrous Webs and Method of Making

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Commissioner of the Patents & Trademarks
Washington, D. C. 20231

JOHN MANVILLE INTERNATIONAL, INC.
[Signature]
8-10-04
Date

Dear Sir:

Information Disclosure Statement

The following references are known to the Applicant and Applicant's attorney. These references involve low formaldehyde compositions.

1. United States Pat. No. 5,143,954 teaches a low formaldehyde, self-cross linking polymer latex composition for use in making nonwoven products, the composition including one or more very complex and costly formaldehyde scavengers such as N-hydroxyethylethyleneurea, ethyl acetoacetate, 2,4-pentanedione, esters of 2-cyanoacetate, 2-cyanoacetamide, trimethylopropane tricyanoacetate, and the polymerized residue of methacryloxyethyleneurea.
2. United States Pat. No. 5,160,679 teaches using acetoacetamide as an effective formaldehyde scavenger in the manufacture of wood particleboard and durable press finished fabrics that use urea formaldehyde as a binder.
3. United States Pat. No. 5,446,195 teaches formaldehyde scavengers widely used in durable press finishing compositions and wood particleboard such as diethylene glycol, sorbitol, urea, melamine, diazine, triazine, and a water-soluble active methylene compound.
4. United States Pat. No. 5,578,371 teaches adding urea, melamine, dicyandiamide and/ or 1-10 wt. percent of a water-soluble bisulfite or precursor to urea extended phenol

formaldehyde binders in the manufacture of fiber glass insulation products, which products are not later coated or impregnated with hot asphalt.

5. United States Pat. No. 5,612,405 teaches glass fiber products bonded with a binder containing an aqueous compatible formaldehyde resin like phenolic resin, an aqueous latex elastomeric polymer like styrene butadiene, ethylene propylene monomer, ethylene propylene-diene terpolymer, etc., an acrylic polymer like copolymers of acrylic acid, methacrylic acid acrylic or methacrylic acid esters from 1-4 carbon atoms, acrylamide polymers or copolymers and esters thereof of from 1-4 carbon atoms, and a formaldehyde scavenger like melamine, guanamine, benzyl guanamine, guanidine, dicyandiamide, and the like.

6. United States Pat. No. 5,719,228 teaches using furan resins to bond glass fibers together to manufacture glass fiber products and to add urea or ammonia as formaldehyde scavengers, but also teach that these known additives produce disadvantages and therefore prefer to prereact an acidic furan resin, a formaldehyde scavenger and a source of reactable formaldehyde with a source of ammonia before spraying the binder onto the glass fibers.

7. United States Patent No. 5,795,933 teaches aqueous metal coating compositions comprising a formaldehyde containing resin and a formaldehyde scavenger consisting essentially of an organic compound having at least one active methylene hydrogen and a pKa about 5 to 13.

Respectfully submitted,


Attorney for Applicants

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Institute for form 1449/PTO

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Complete if Known

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First Named Inventor	Miele
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**Examiner
Signature**

Date
Considered

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